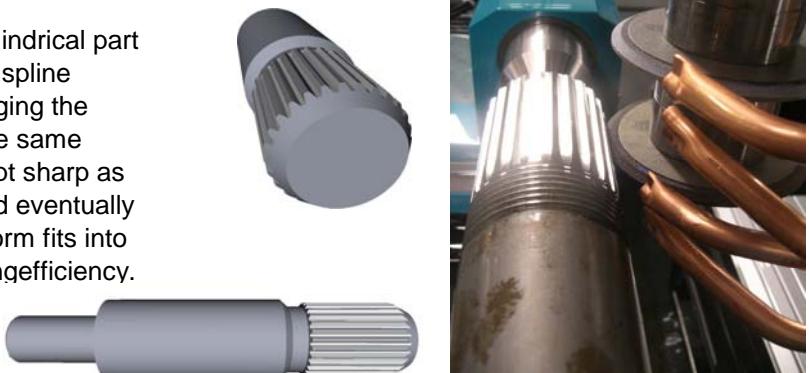


Spline Shaft Ø88.5 Z28

A40-950

The spline shaft is usually ground from a solid cylindrical part with conventional wheels. It allows to change the spline geometry fast and economically by simply changing the wheel-DXF and redress the new geometry on the same wheel, and for small splines the wheel can be kept sharp as being redressed when needed. Pregrinding could eventually be done with a V-shaped CBN wheel, whose V-form fits into most of the spline geometries, to increase grinding efficiency.



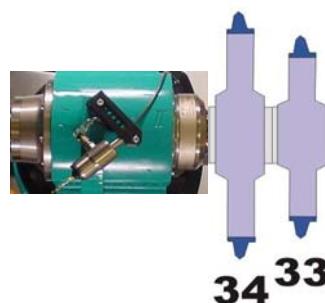
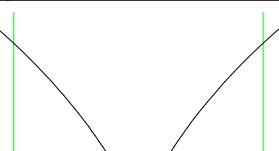
1. Cycletime for Production

Tool specifications							
	Diameter 88.5 mm, Z 28, Length of spline 103 mm						
Material HSS							
Operations							
Dress 2 w	100	450	1200	100	1200	100	1200
Power [kW]	1	1	1	1	1	1	1
Cutting feed [m/s]	24	42	42	24	42	24	42
Used wheels							
Grinding time [s]	33	33	34	34	34	34	34
Total cycle time	39 Min 24						

The mentioned cycle times are indicative. The material to be ground, different grinding wheels or other coolants can influence the cycle times considerably.

2. Used Grinding Wheels

33	DXF Ø90 C90
34	DXF Ø90 C200



3. Machine and Software Requirements

Machines: 5 axes CNC grinders : GEMINI DMR kw 26, dressing unit
 Control: Fanuc 31i
 Coolant: Synthetic Oil, pressure 16-18 bar
 Software: Quinto 5

responsible engineer: OP,7.1.09

www.schneeberger.ch

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TECHNOLOGY
FOR TOOLING